

Appl. No. 10/711,598

Reply to Office Action Mailed 09-29-2006

Amendments to the Specification

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On page 3, please amend the last paragraph as follows:

Mechanical shock for components mounted in an articulated pad is another serious concern. Assuming 120 RPM and one shock per revolution, the pad will experience 7,200 shocks/hr. ~~7,2000 shocks/hr.~~ In a 100 hr job, the pad would

On page 4, please amend the first paragraph as follows:

experience 720,000 shocks. To achieve an MTBF (Mean Time Between Failure) of 2000 hr, the pad components would then have to survive 14,400,000 shocks. These numbers are well above the number of shocks currently experienced by Measurement While Drilling (MWD) or LWD components which are not mounted in an articulated pad. Furthermore, since the pad is small, lightweight, and articulated, the shock level will be considerably higher in the pad than in the drill collar. Developing antennas and electronics to survive these shock levels is challenging.